## What is claimed is:

1. A security management system for controlling a 1 security status of each of a plurality of managed 3 systems constituting an information system in accordance with an information security policy 4 representing a policy of a security measure, 5 comprising: 7 a plurality of management sections corresponding 8 to at least one managed system and the information 9 security policy, each management section being for 10 controlling the security status of the managed system 11 corresponding thereto so as to adjust the security status to the information security policy 12 corresponding thereto; 13 14 a database registering a correspondence of the 15 information security policy, the managed system and 16 each management section: 17 a security content reception section for 18 receiving a selection of a range of the information 19 security policy and the managed system from a user; 20 an extraction section for extracting from said database the management section registered so as to 21

correspond to the information security policy and the

- 23 managed system included in the range in which said
- 24 security content reception section has received the
- 25 selection: and
- 26 a management control section for allowing the
- 27 management section extracted by said extraction
- 28 section to change the security status of the managed
- 29 system corresponding to the management section so as
- 30 to adjust to the information security policy corre-
- 31 sponding to the management section.
  - 1 2. A security management system for auditing a security
- 2 status of each of a plurality of managed systems
- 3 constituting an information system, the security
- 4 status concerning an information security policy
  - 5 representing a policy of a security measure,
- 6 comprising:
- 7 a plurality of audit sections corresponding to
- 8 at least one managed system and at least one
- 9 information security policy, each audit section being
- 10 for auditing the security status concerning the
- 11 corresponding information security policy of the
- 12 corresponding managed system;
- 13 a database registering a correspondence of the
- 14 information security policy, the managed system and
- 15 the audit section;
- 16 a security content reception section for

17 receiving a selection of a range of the information

18 security policy and the managed system from the user;

19 an extraction section for extracting from said

20 database the audit section registered so as to

21 correspond to the information security policy and the

22 managed system included in the range in which said

23 security content reception section has received the

24 selection; and

25 an audit control section for allowing the audit

26 section extracted by said extraction section to audit

27 the security status concerning the information

28 security policy of the managed system corresponding

29 to the audit section.

1 3. A security management system for controlling a

2 security status of each of a plurality of managed

3 systems constituting an information system in

4 accordance with an information security policy

5 representing a policy of a security measure,

6 comprising:

7 a plurality of management sections corresponding

8 to at least one managed system and at least one

9 information security policy, each management section

10 being for controlling the security status of the

11 corresponding managed system so as to adjust the

12 security state to the corresponding information

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13 security policy;

14 a plurality of audit sections corresponding to 15 at least one managed system and at least one 16 information security policy, each audit section being 17 for auditing the security status concerning the 18 corresponding information security policy of the 19 corresponding managed system;

20 a database registering a correspondence of the 21 information security policy, the managed system, the management section and the audit section; 22

a security content reception section for receiving a selection of a range of the information security policy and the managed system from a user; an extraction section for extracting from said

26 27 database the management section and the audit section, 28 which are registered so as to correspond to the 29 information security policy and the managed system included in the range in which said security content 30 31 reception section has received the selection;

32 a management control section for allowing the 33 management section extracted by said extraction 34 section to change the security status of the managed 35 system corresponding to the management section so as 36 to adjust to the information security policy corre-37 sponding to the management section; and 38

an audit control section for allowing the audit

- 39 section extracted by said extraction section to audit
- 40 the security status concerning the information
- 41 security policy of the managed system corresponding
- 42 to said audit section.
- 1 4. A security management method for controlling a
- 2 security status of each of a plurality of managed
- 3 systems constituting an information system with an
- 4 electronic computer in accordance with an information
- 5 security policy representing a policy of a security
- 6 measure, comprising the steps of:
- 7 receiving a selection of a range of the
- 8 information security policy and the managed system
- 9 from a user;
- 10 extracting a management program corresponding to
- 11 an information security policy and a managed system,
- 12 included in the range in which the selection has been
- 13 received, among a plurality of management programs
- 14 describing a processing for controlling the security
- 15 status of the corresponding managed system so as to
- 16 adjust the security status to the corresponding
- 17 information security policy, the plurality of
- 18 management programs corresponding to at least one
- 19 information security policy and at least one managed
- 20 system, which are previously stored; and
- 21 allowing the electronic computer to execute the

- 22 extracted management program and to change the
- 23 security status of the managed system corresponding
- 24 to the management program so that the security status
- 25 thereof is adjusted to the information security policy
- 26 corresponding to the management program.
  - 1 5. A security management method for auditing, with an
- 2 electronic computer, a security status of each of a
- 3 plurality of managed systems constituting an
- 4 information system, the security status concerning an
- 5 information security policy representing a policy of
  - 6 a security measure, comprising the steps of:
  - 7 receiving a range of a selection of the
- 8 information security policy and the managed system
- 9 from a user;
- 10 extracting an audit program registered so as to
- 11 correspond to the information security policy and the
- 12 managed system, which are included in the range in
- 13 which the selection has been received, among a
- 14 plurality of audit programs describing a processing
- 15 for auditing the security status concerning the
- 16 corresponding information security policy of the
- 17 corresponding managed system, the plurality of audit
- 18 programs corresponding to at least one information
- 19 security policy and at least one managed system, which
- 20 are previously stored; and

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allowing the electronic computer to execute the
extracted audit program and to audit the security
status of the managed system corresponding to the audit
program, the security status concerning the
information security policy corresponding to the audit
program.

6. A storage medium storing a program for controlling
a security status of each of a plurality of managed
systems constituting an information system in
accordance with an information security policy
representing a policy of a security measure,
wherein said program is read out and executed by

an electronic computer,
 to construct, on said electronic computer,

a security content reception section for receiving a selection of a range of the information security policy and the managed system from a user;

an extraction section for extracting a management
program corresponding to an information security
policy and a managed system, which are included in the
range in which said security content reception section
has received the selection, from a database storing
a plurality of management programs describing a
processing for controlling the security status of the

19 corresponding managed system so as to adjust the

- 20 security status of the managed system to the corre-
- 21 sponding information security policy, the plurality
- 22 of management programs corresponding at least one
- 23 managed system and at least one information security
- 24 policy; and
- 25 a management control section for allowing said
- 26 electronic computer to execute the management program
- 27 executed by said extraction section and to change the
- 28 security status of the managed system corresponding
- 29 to the extracted management program so as to adjust
- $30\,$   $\,$  the security status to the information security policy
- 31 corresponding to the extracted management program.
  - 1 7. A storage medium storing a program for auditing a
  - 2 security status concerning an information security
- 3 policy representing a policy of a security measure of
- 4 a plurality of managed systems constituting an
- 5 information system,
- 6 wherein said program is read out and executed by
- 7 an electronic computer,
- 8 to construct, on said electronic computer,
- 9 a security content reception section for
- 10 receiving a selection of a range of the information
- 11 security policy and the managed system from a user;
- 12 an extraction section for extracting an audit
- 13 program registered so as to correspond to an

14 information security policy and a managed system,

15 which are included in the range in which said security

16 content reception section has received the selection,

17 from a database storing a plurality of audit programs

18 describing a processing for auditing the security

19 status concerning the corresponding information

20 security policy of the corresponding managed system,

21 the plurality of audit programs corresponding to at

22 least one managed system and at least one information

23 security policy; and

an audit control section for allowing the electronic computer to execute the audit program extracted by said extraction section and to audit the security status concerning the information security policy corresponding to the audit program of the managed system corresponding to the audit program.

1 8. A security management method for supporting a
2 security management of each of a plurality of managed
3 systems constituting an information system with an
4 electronic computer, comprising:

4 electronic computer, comprising:
5 a security specification hatching step of ex6 tracting an information security policy made to
7 correspond to each managed system constituting an
8 information system designated by a user from a database

9 describing a correspondence of an information security

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10 policy representing a policy of a security measure with 11 at least one managed system, to hatch security 12 specifications to be applied to the information 13 system;

14 a security diagnosis step of executing a 15 plurality of audit programs describing a processing for auditing various information including a type of 16 17 the managed system and a software version, which are 18 stored so as to correspond to each set of the 19 information security policy and the managed system, 20 the information security policy and the managed system  $^{21}$ being specified by security specifications hatched in 22 said security specification hatching step, as well as 23 a security status concerning the information security 24 policy of the managed system, to audit the various 25 information including the type and the software 26 version of the managed system constituting the 27 information system designated by the user, and to 28 diagnose a security of said information system; and 29 a security handling and management step of ex-30

diagnose a security of said information system; and
a security handling and management step of executing a management program designated by the user,
among a plurality of management programs describing
a processing for controlling the security status
concerning the information security policy of the
managed system stored so as to correspond to each set
of the information security policy and the managed

- 36 system, which are specified by the security
- 37 specifications hatched in said security specification
- 38 hatching steps, to allow said electronic computer to
- 39 change the security status of the managed system
- 40 corresponding to the management program so as to adjust
- 41 the security status to the information security policy
- 42 corresponding to the management program.
- 9. The security management method according to claim
   8,
- 3 wherein, in said security diagnosis step, the
- 4 audit program made to correspond to each set of the
- 5 information security policy and the managed system,
- 6 which are specified by the security specifications
- 7 hatched in said security specification hatching step,
- 8 is extracted from a database describing a
- 9 correspondence of the information security policy, the
- 10 managed system and the audit program describing a
- ll processing for auditing various information such as
- 12 a type and a software version of said managed system
- 13 as well as the security status concerning said
- 14 information security policy of said managed system,
- 15 and executed, to diagnose the security of the
- 16 information system designated by said user; and
- in said security handling and management step,
- 18 the management programs made to correspond to each set

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the

- 19 of the information security policy and the managed
- 20 system, which are specified by the security
- specifications hatched in said security specification 21
- 22 hatching step, are extracted from a database
- 23 describing a correspondence of the information
- 24 security policy, the managed system and the management
- 25 program describing a processing for controlling the
- 26 security status concerning the security policy, the
- 27 managed system and said information security policy

of a security of said managed system, and the

among the extracted programs to be executed, to allow

- 29
- management program designated by the user is extracted
- security status of the managed system
- 32 corresponding to the extracted management program to
- 33 information adjust to the security policy
- 34 corresponding to the management program.
  - 1 10. The security management method according to claim
  - 2 8.
  - 3 wherein said security diagnose step is executed
  - periodically.
  - 11. The security management method according to claim 1
  - 2 8,
  - 3 wherein, in accordance with a setting content
  - received from the user, said management program

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- 5 changes the security status of the managed system
- 6 corresponding to the management program so as to adjust
- 7 the security status to the information security policy
- 8 corresponding to the management program.
- $1\,$  12. The security management method according to claim
- 28.
- 3 wherein a security hole information published by
- 4 a security information organization including CERT or
- 5 Computer Emergency Response Team and diagnosis results
- 6 obtained in said security diagnose step which is
- 7 executed for the information system designated by the
- 8 user are reflected in the database describing the
- 9 correspondence of the information security policy with
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at least one managed system and an audit/management

- 11 program stored so as to correspond to each set of the
- 12 information security policy and the managed system.
- 1 13. A security management system for supporting a
- 2 security management of managed systems constituting
- 3 an information system, comprising:
- 4 a database describing a correspondence of an

information security policy representing a policy of

- 6 a security measure with at least one managed system;
- 7 a security specification hatching section for
- 8 extracting an information security policy made to

9 correspond to each of the managed systems constituting
10 the information system designated by a user from said
11 database, to hatch security specifications to be
12 applied to the information system;

a plurality of audit sections for auditing various information including a type and a software version of the managed system as well as a security status concerning the information security policy of the managed system, each audit section being provided so as to correspond to each set of the information security policy and the managed system, which are specified by security specifications hatched by said security specification hatching section, and;

a security diagnosis section for diagnosing a security of an information system designated by said user, on the basis of diagnosis results in each of said audit sections;

a plurality of management sections for controlling a security status concerning the information security policy of the managed system, each management section being provided so as to correspond to each set of the information security policy and the managed system, which are specified by security specifications hatched by said security specification hatching step, and;

a security handling and management section for

- 35 executing a management section designated by said user,
- 36 to change the security status of the managed system
- 37 corresponding to the management program so as to adjust
- 38 the security status to the information security policy
- 39 corresponding to the management program.